Hitachi S-4700-II SEM

Instrument capabilities:

1. Instrument specifications:

a) Accelerating voltages: 0.5-30 kV

b) Cold FEG emitter

c) SEI resolution: 1.5 nm at 15 kV; 2.5 nm at 1.0 kV

2. Specimen stage:

a) 5-axis motorized stage

b) Maximum sample size: 27 mm (H) x 150 mm (dia.)

3. Operating modes: SEI, BEI, light element XEDS (mapping & spectrum imaging).

Typical experiments (examples):

- > High resolution secondary electron imaging
- > XEDS mapping and spectrum imaging
- > Low-kV studies of ceramic surfaces
- > Backscattered electron compositional imaging

